INDEX---VOL. XXXVI.

A.

Accident on Gas Co.'s Premises, Detroit, 12.
American Society Civil Engineers, 26.
Analysis of Coals, 26.
Antique Bronzes, 84.
Ammoniated Superphosphate Process, The, 271.

B.

Burner, New High Power, 35.
Boston, Report of Superintendent of Lamps, 78.
Burners and Various Gas Apparatus in Use for Domestic and other Purposes, 222.

C.

Cooking and Heating by Gas, 2.
Colbath, C. S., Death of, 13.
Chesterfield, England, Public Lighting, 58.
Citizens Company of Newark, Accident to, 61.
Condensation and Hot Scrubbing, 75.
Collapse of Gasholder, Newark, N. J., 82.
Cement, Action on Embedded Metals, 32.
Cincinnati, O., Street Lighting, 132.
Coal, Prices at Pittsburgh, 132.
Coal Tar Nuisance, 155.
Colored Glass, Effect of, 157.
Crustaceans and Light, 252.
Coal Firm, Retirement of a Large, 253.
Changes, 98, 205.
City Gas Works, Richmond, Va., Annual Report, 221.

D.

Douglass, J. N., New Burner, 35.
De Meriten's Accumulator, 33.
Dixon, Harold B., Illuminating Power, 28.
Dwight, George, Death of, 88, 100.
Dresser, G. W., Paper on Furnaces, 51, 195.
Deaths from Gas, 132.
Distressing Accident, 252.
Death of Mr. Keates, 274.
Damaged by a Tornado, Gas Works at Cairo, Ills., 204.

E.

Extending the Use of Gas, 2.
Explosion of Street Lamp, 36, 109.
" Wilkesbarre, 122.
" of Gas, Chicago, Ill, 132.
Equitable Gas Light Co., New York, 157.

F.

Faure's Accumulator, 33, 155.
Fletcher, T., Gas, Use of, 58.
Fulton Municipal Gas Co., Brooklyn, 203.

G.

Gaseous Fuel for General Use, 11.
Gas Lighting, Future of, 11.
Gas in Theatres, 36.
Generator Furnaces, Advantage of Recuperation, 51.
Gas Still Ahead, 57.
Gas for Domestic Purposes, Economical Use of, 58.
Glasgow Gas, Reduction of Illuminating Power, 80.
Gas Engines *vs.* Steam Engines, 107.
Gas Killed Him, 109.
Gas Tar Water for Insects, 109.
Gas Street Lighting in London, 109.
Gas Light and Coke Company of London, 130.
Gas Industry, Notes and Observations, 154, 203.
Gas War, Brooklyn, 155.
Gas Light Company, A New, 266.
Gas Apparatus, Portable, 276.
Gas and Coke, System of Burning, 276.
Gas for Lighthouses, 197.
Gas Supply, Leeds Corporation, 219.
Gas Pipes, Deterioration of, 226.
Gas and its Future, 242.

H.

Hydro-Carburetted Air, Motive Power from, 170.
Heating Soldering Irons, Gas Stoves for, 276.
Honest Journalism, 249.

I.

Illuminating Power, Effect of Long Storage, 28.
Illuminated Clocks, 54.
Illumination by Gas, Improvement in, 171.
Illumination of Mines, 270.

J.

Jamaica Plain Gas Company, Annual Report, 222.

L.

Livesey, Geo., Intended Retirement, 98.
Lava Tip Burners, 179.

M.

McIlhenny's Furnace, 4.*
Motive Power, Electricity as, 61.
Marshall, F. D., Purification, 77.
Midland Association of Gas Managers, 243.

N.

New England Association Gas Engineers, 42, 74, 99, 123, 147.
Naphtha and Cannel as Enrichers, 74.
Non-conductivity of Materials, 130.
Naphthaline, Purification of, 132.

O.

Ocean Mines, Map of, 27.
Oil, Scotch Mineral, Improvements, 81.
Otto *vs.* Linford, Gas Engines, 105.
One Meter which Cheated a Gas Company, 249.

P.

Photometric Standards, Report on, 10.
Petroleum Outlook, 12, 50, 146, 266.
Patents, 13, 61, 109, 205, 277.
Paint Removing, 35.
Photometer, New, Coulons, 50.
Purification by Ammonia, 77.*
Physical Society Proceedings, 155.
Page, G. S, 154.
Purification of Water, 180.
Patent Fuel in France, the Manufacture of, 273.
Public Lighting in New York City, 273.
Pipe Line, Mare Island, 204.
Piping Gas from Coal Mines to Cities, 228.
Paris (France) Gas Company, Report for 1881, 228.
Portland, Maine, Gas Company, Report of, 249.

Q.

Quinine, for Prevention of Sunstroke, 109.
" from a New Source, 179.

R.

Reduction in Price of Gas, Washington, D. C., 12.
" " " " " Youngstown, O., 155.
" " " " " Wilmington, Del., 170.
Railways of the Globe, 36.
Railway Cars, Lighting of, 75.
Report of Com., Manchester City Council, 83.

S.

Society of Gas Lighting, 2, 51, 75, 195, 242.
Scott's Ocean Mine Gas Coal, 27.
Storage of Gas, Effect on Illuminating Power, 28.
Smoke Nuisance, 54.
Sherman, F. C., Condensation, Hot Scrubbing, 75, 123.
Springfield, Mass., New Superintendent of Gas Co., at, 108.
Sulphate of Ammonia, 109, 149.
Stedman, Wm. A., President's Address, 99.
Stiness, S. G, Gas Purification, 102.
Sulphur in Coal, 153.
Sickles Gas Case, 180.
Secondary Batteries, 269.
Sulphate of Ammonia, Manufacture on a Small Scale, 276.
Siemen's Gas Producer, at Dalmarnock, The, 276.
St. Catharines and Welland Canal Gas Light Co., Twenty-sixth Annual Report of, 204.
Smoke Abatement Exhibition, etc., 218.
Sound Clerical Advice to Workingmen, 220.

T.

Thompson, Sylvanus P., Storage of Electricity, 6, 31, 55.
Tar as Fuel, F. C. Sherman, 123.
Thames Embankment, The, 228.
Taylor, Moses, Obituary, 242.

V.

Veto, Another, 218.

W.

Water Softened by Chalk, 54.
Water Tight Brick Walls, 59.
Windows, Frost and Steam on, 131.
Weight of Different Woods, 268.
Western Gas Association, 98, 121, 145, 169, 193, 250, 267.

CORRESPONDENCE—

Stopped Stand Pipes. 60.
Jamestown, N. Y., New Works, 60.
Effect of Passing Electric Spark through Coal Gas, 60.
Suffocated by Gas, 60.
Funeral of Geo. Dwight, 83.
English Engineers' Criticism of Electricians Statements, 83.
Gas Engines, 84.
Naphthaline, 108.
Corrections, 132.
Not Recommended, 132.
Reply to Engineer, 155.
Relation of Holder, Capacity to Maximum, Make, 156, 204.
Reduction in Price of Gas, 252.

EDITORIAL—

The New Year, 1.
Gas Works Plant, 25.
Economy of Incandescent Lighting, 26.
Death of George Dwight, 49.
Purchase of Water Gas Patents, 50.
Condensation of Coal Gas, 50.
Brooklyn Gas Company, 50.
Remarkable Report on Electric Light, 73.
The London South Metropolitan Co., 97.
Annual Meeting of New England Association, 98.
Volume III, King's Treatise, 98, 121, 145, 169.
Boston Electric Lighting, 121.
Street Lighting in New York City, 145.
Haswell's Hand Book, 146.
The Sickles Case, Judge Lawrence's Decision, 169.
American Electric Light Co., Boston, 193.
Gas Engines, 217.
Meeting of Western Gas Association, 241.
Pittsburgh Meeting, The, 265.

ELECTRIC LIGHT—

Electrical Congress, Conclusions of, 2.
Economy of Incandescent, 26.
Storage of Electricity, 6, 31, 55, 252.*
Risks and Remedies of, 34.
In Boston, 35.
Death from Wire of, 26.
Dangers from, 59, 252.
Spectrum of, 59.
A Failure of, 82.
In the House of Commons, 98.
Paddington Vestry, 98.
Killed by Electricity, 108.
Gas Institute at Exhibition of Crystal Palace, 146, 175
Bids for, in New York Streets, 157.
At Akron, Ohio, 156.
Gas and Electricity, 19.
Awards of Contracts for, in New York, 203.
Its Uses and Abuses, 203.
At Newport, R. I., 204.
At Lafayette, Ind., 204.
Faure Accumulator, Value of, 218.
Wires Undergrounnd, 218.
Caution in Dealing with, New Electric Light Co.'s, 227.
A Chemeriical Scheme, 247.
In Railway Stations, 252.
The London "Times," and the, 268.
At Niagara Falls, 272.
Paper on Electric Light Engineering, by Messrs. Biggs and Beaumont, Remarks of Mr. Spice on, 275.

INDEX---VOL. XXXVI.

A.

Accident on Gas Co.'s Premises, Detroit, 12.
American Society Civil Engineers, 26.
Analysis of Coals, 26.
Antique Bronzes, 84.
Ammoniated Superphosphate Process, The, 271.

B.

Burner, New High Power, 35.
Boston, Report of Superintendent of Lamps, 78.
Burners and Various Gas Apparatus in Use for Domestic and other Purposes, 222.

C.

Cooking and Heating by Gas, 2.
Colbath, C. S., Death of, 13.
Chesterfield, England, Public Lighting, 58.
Citizens Company of Newark, Accident to, 61.
Condensation and Hot Scrubbing, 75.
Collapse of Gasholder, Newark, N. J., 82.
Cement, Action on Embedded Metals, 32.
Cincinnati, O., Street Lighting, 132.
Coal, Prices at Pittsburgh, 132.
Coal Tar Nuisance, 155.
Colored Glass, Effect of, 157.
Crustaceans and Light, 252.
Coal Firm, Retirement of a Large, 253.
Changes, 98, 205.
City Gas Works, Richmond, Va., Annual Report, 221.

D.

Douglass, J. N., New Burner, 35.
De Meriten's Accumulator, 33.
Dixon, Harold B., Illuminating Power, 28.
Dwight, George, Death of, 88, 100.
Dresser, G. W., Paper on Furnaces, 51, 195.
Deaths from Gas, 132.
Distressing Accident, 252.
Death of Mr. Keates, 274.
Damaged by a Tornado, Gas Works at Cairo, Ills., 204.

E.

Extending the Use of Gas, 2.
Explosion of Street Lamp, 36, 109.
" Wilkesbarre, 122.
" of Gas, Chicago, Ill, 132.
Equitable Gas Light Co., New York, 157.

F.

Faure's Accumulator, 33, 155.
Fletcher, T., Gas, Use of, 58.
Fulton Municipal Gas Co., Brooklyn, 203.

G.

Gaseous Fuel for General Use, 11.
Gas Lighting, Future of, 11.
Gas in Theatres, 36.
Generator Furnaces, Advantage of Recuperation, 51.
Gas Still Ahead, 57.
Gas for Domestic Purposes, Economical Use of, 58.
Glasgow Gas, Reduction of Illuminating Power, 80.
Gas Engines *vs.* Steam Engines, 107.
Gas Killed Him, 109.
Gas Tar Water for Insects, 109.
Gas Street Lighting in London, 109.
Gas Light and Coke Company of London, 130.
Gas Industry, Notes and Observations, 154, 203.
Gas War, Brooklyn, 155.
Gas Light Company, A New, 266.
Gas Apparatus, Portable, 276.
Gas and Coke, System of Burning, 276.
Gas for Lighthouses, 197.
Gas Supply, Leeds Corporation, 219.
Gas Pipes, Deterioration of, 226.
Gas and its Future, 242.

H.

Hydro-Carburetted Air, Motive Power from, 170.
Heating Soldering Irons, Gas Stoves for, 276.
Honest Journalism, 249.

I.

Illuminating Power, Effect of Long Storage, 28.
Illuminated Clocks, 54.
Illumination by Gas, Improvement in, 171.
Illumination of Mines, 270.

J.

Jamaica Plain Gas Company, Annual Report, 222.

L.

Livesey, Geo., Intended Retirement, 98.
Lava Tip Burners, 179.

M.

McIlhenny's Furnace, 4.*
Motive Power, Electricity as, 61.
Marshall, F. D., Purification, 77.
Midland Association of Gas Managers, 243.

N.

New England Association Gas Engineers, 42, 74, 99, 123, 147.
Naphtha and Cannel as Enrichers, 74.
Non-conductivity of Materials, 130.
Naphthaline, Purification of, 132.

O.

Ocean Mines, Map of, 27.
Oil, Scotch Mineral, Improvements, 81.
Otto *vs.* Linford, Gas Engines, 105.
One Meter which Cheated a Gas Company, 249.

P.

Photometric Standards, Report on, 10.
Petroleum Outlook, 12, 50, 146, 266.
Patents, 13, 61, 109, 205, 277.
Paint Removing, 35.
Photometer, New, Coulons, 50.
Purification by Ammonia, 77.*
Physical Society Proceedings, 155.
Page, G. S, 154.
Purification of Water, 180.
Patent Fuel in France, the Manufacture of, 273.
Public Lighting in New York City, 273.
Pipe Line, Mare Island, 204.
Piping Gas from Coal Mines to Cities, 228.
Paris (France) Gas Company, Report for 1881, 228.
Portland, Maine, Gas Company, Report of, 249.

Q.

Quinine, for Prevention of Sunstroke, 109.
" from a New Source, 179.

R.

Reduction in Price of Gas, Washington, D. C., 12.
" " " " " Youngstown, O., 155.
" " " " " Wilmington, Del., 170.
Railways of the Globe, 36.
Railway Cars, Lighting of, 75.
Report of Com., Manchester City Council, 83.

S.

Society of Gas Lighting, 2, 51, 75, 195, 242.
Scott's Ocean Mine Gas Coal, 27.
Storage of Gas, Effect on Illuminating Power, 28.
Smoke Nuisance, 54.
Sherman, F. C., Condensation, Hot Scrubbing, 75, 123.
Springfield, Mass., New Superintendent of Gas Co., at, 108.
Sulphate of Ammonia, 109, 149.
Stedman, Wm. A., President's Address, 99.
Stiness, S. G, Gas Purification, 102.
Sulphur in Coal, 153.
Sickles Gas Case, 180.
Secondary Batteries, 269.
Sulphate of Ammonia, Manufacture on a Small Scale, 276.
Siemen's Gas Producer, at Dalmarnock, The, 276.
St. Catharines and Welland Canal Gas Light Co., Twenty-sixth Annual Report of, 204.
Smoke Abatement Exhibition, etc., 218.
Sound Clerical Advice to Workingmen, 220.

T.

Thompson, Sylvanus P., Storage of Electricity, 6, 31, 55.
Tar as Fuel, F. C. Sherman, 123.
Thames Embankment, The, 228.
Taylor, Moses, Obituary, 242.

V.

Veto, Another, 218.

W.

Water Softened by Chalk, 54.
Water Tight Brick Walls, 59.
Windows, Frost and Steam on, 131.
Weight of Different Woods, 268.
Western Gas Association, 98, 121, 145, 169, 193, 250, 267.

CORRESPONDENCE—

Stopped Stand Pipes. 60.
Jamestown, N. Y., New Works, 60.
Effect of Passing Electric Spark through Coal Gas, 60.
Suffocated by Gas, 60.
Funeral of Geo. Dwight, 83.
English Engineers' Criticism of Electricians Statements, 83.
Gas Engines, 84.
Naphthaline, 108.
Corrections, 132.
Not Recommended, 132.
Reply to Engineer, 155.
Relation of Holder, Capacity to Maximum, Make, 156, 204.
Reduction in Price of Gas, 252.

EDITORIAL—

The New Year, 1.
Gas Works Plant, 25.
Economy of Incandescent Lighting, 26.
Death of George Dwight, 49.
Purchase of Water Gas Patents, 50.
Condensation of Coal Gas, 50.
Brooklyn Gas Company, 50.
Remarkable Report on Electric Light, 73.
The London South Metropolitan Co., 97.
Annual Meeting of New England Association, 98.
Volume III, King's Treatise, 98, 121, 145, 169.
Boston Electric Lighting, 121.
Street Lighting in New York City, 145.
Haswell's Hand Book, 146.
The Sickles Case, Judge Lawrence's Decision, 169.
American Electric Light Co., Boston, 193.
Gas Engines, 217.
Meeting of Western Gas Association, 241.
Pittsburgh Meeting, The, 265.

ELECTRIC LIGHT—

Electrical Congress, Conclusions of, 2.
Economy of Incandescent, 26.
Storage of Electricity, 6, 31, 55, 252.*
Risks and Remedies of, 34.
In Boston, 35.
Death from Wire of, 26.
Dangers from, 59, 252.
Spectrum of, 59.
A Failure of, 82.
In the House of Commons, 98.
Paddington Vestry, 98.
Killed by Electricity, 108.
Gas Institute at Exhibition of Crystal Palace, 146, 175
Bids for, in New York Streets, 157.
At Akron, Ohio, 156.
Gas and Electricity, 19.
Awards of Contracts for, in New York, 203.
Its Uses and Abuses, 203.
At Newport, R. I., 204.
At Lafayette, Ind., 204.
Faure Accumulator, Value of, 218.
Wires Undergrounnd, 218.
Caution in Dealing with, New Electric Light Co.'s, 227.
A Chemeriical Scheme, 247.
In Railway Stations, 252.
The London "Times," and the, 268.
At Niagara Falls, 272.
Paper on Electric Light Engineering, by Messrs. Biggs and Beaumont, Remarks of Mr. Spice on, 275.